CONSTRUCTION SITES

Continuously switching on and off the mains supply to the units during the installation process (due to building works or for some other reason), could cause the fittings to discharge and charge their batteries many times over a short period which may shorten the life of the battery. Thomas & Betts does not recommend such practices and may not honour any warranty on the life of the batteries or the lamp/beams when subjected to such harsh operating conditions. The units are designed to be regularly discharge tested once every 6 months as per AS/NZS2293.2. In order to prevent damage to the battery, leave the unswitched active circuit turned off at the circuit breaker, until the emergency lighting is required on the site.

TROUBLE SHOOTING GUIDE

If you've installed and connected the Flood Unit as per the instructions listed earlier and it doesn't work properly, use the following table as a guide to fixing the problem. Look up the type of fault in the left column and check the possible causes from the right column.

#	Fault	Possible Causes
1	LED not lit; or LED not flashing green	AC supply not connected; or AC supply turned off
2	LED is flashing green but lamp/beams doesn't come on when test switch is pressed	Fuse missing or fuse damaged; or Lamp/beams wire not inserted/connected properly; or Lamp/beams damaged; or Battery not charged enough; or Battery damaged; or Test switch damaged
3	LED not red after the commissioning	Fuse missing or fuse damaged; or LED wire not properly inserted into the terminal block
4	Lamp/beams is lit momentarily when test switch is pressed; or when mains fail	Battery not fully charged (allow up to 24 hours); or Battery damaged
5	LED is constant green	Unit self checks fail - return to manufacturer
6	Unit LED is not flashing yellow/orange under wink node command	Unit is not receiving communication signal. Check data cable wiring path and cable connections. Refer to Nexus Installation Manual.

If the unit still doesn't work after checking these possible causes, contact Thomas & Betts Service in Australia on 1300 666 595, Monday to Friday, 8.30am to 4.30pm (AEST) and ask for help. Our trained service personnel will usually be able to take your call immediately and assist you in resolving your difficulty. Thomas & Betts is committed to providing valuable Through-Life Support for its products.

© Copyright 2013. Thomas & Betts Australasia ABN: 062 074 810 898.

Complete Solutions in Emergency Lighting STANILITE

Doc No: 29-01023

Thomas&Betts
A Member of the ABB Group

Thomas & Betts Australasia. ABN 062 074 810 898
Head Office: Unit D3, 3-29 Birnie Avenue, Lidcombe NSW 2141, Australia
Manufacturing: 23a Nyrang Street, Lidcombe NSW 2141, Australia
Telephone: (+61) 1300 666 595 Facsimile: (+61) 1300 666 594

Nexus Flood Unit Installation Manual

Contents	What's Inside the box
Electrical Safety Warning	Nexus Flood Unit
Network Control System (Nexus) Warning	Installation Manual
Installation Instructions	Warranty Information
Nexus Flood Unit Removal Method	
Testing Precautions	
Trouble Shooting Guide	

GREETINGS

Congratulations on choosing to use this Thomas & Betts product covered by our unique Through-Life Support system. This document is designed to assist you during the installation of this product, so for the safety of yourself and others **Thomas & Betts recommends that you read this document thoroughly before commencing installation.**
The Nexus Flood Units are designed to be fitted quickly. These are advanced pieces of electronic equipment and when treated with due care and maintained through regular and appropriate servicing, will perform without trouble for many years to come.

SAFETY WARNING

In Australia and New Zealand, only licensed electricians are permitted by law to work with 240 Volt electrical installations.
Do not attempt to install or connect this product unless you are a licensed electrician.
Turn off and isolate the electrical supply before connecting this fitting to the building wires.
Do not touch the terminals of the terminal block when the light fitting is energised.
The only user serviceable parts are the lamp/s.
Do not tamper with the fitting or the warranty will be void.
As the installer, it is your responsibility to ensure compliance with all relevant building and safety codes, (ie: AS3000, AS/NZS2293).
Refer to the applicable standards for data and mains cabling installation procedures and requirements.

NEXUS LX (DATA CABLE SYSTEM)

The Nexus Flood Unit fittings are designed to be connect into a special communication network, using Level 4 single twisted pair data cable. Before attempting to create or modify an Nexus network, please ensure that you are familiar with the special requirements of these networks. Also ensure that you have prior permission from the building owner or manager. The Nexus LX User & Technical Guide describes all you need to know to successfully install an Nexus project. Please ensure you have read the guide before continuing.

© Copyright 2013. Thomas & Betts Australasia ABN: 062 074 810 898.

INSTALLATION INSTRUCTIONS

To install the Nexus Flood Unit, follow these steps:

1. Remove the unit from the packing box and inspect it for damage or imperfections. If any damage is found, do not install the unit, but replace it carefully into the packing box and notify the Thomas & Betts Product Support Hotline in Australia on 1300 666 595.

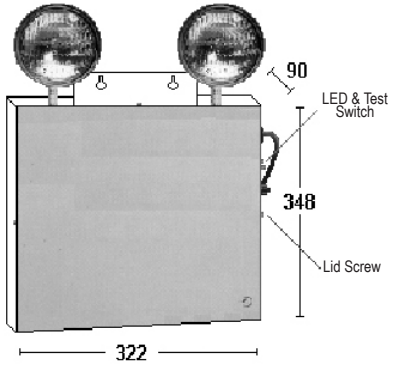

Figure 1: Nexus Flood Unit with Beams Installed

2. If all looks okay proceed with the installation, use a pencil to mark the position of the mounting screw holes for the Flood Unit.

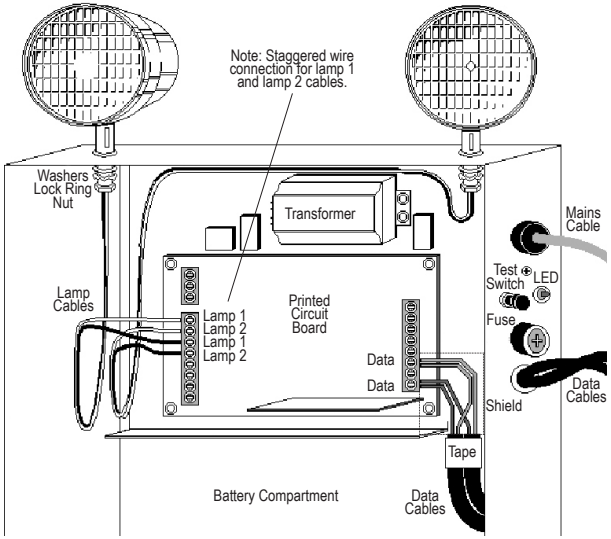

Figure 2: Nexus Flood Unit Lamp/Beams and Data Cable Connection Diagram

3. Remove the lid by unscrewing four screws as shown in Figure1. Install both the beams using washer and lock ring nut (refer to Figure 2).

BEAMS CONNECTIONS

Connect the beam/lamp cables as shown in Figure 2 using a suitably sized screwdriver. Ensure that the stripped wire ends are completely inserted into the terminal block and no bare conductors are exposed to the metal.
Note: The lamp cables are in staggered pattern as shown in Figure 2.

© Copyright 2013. Thomas & Betts Australasia ABN: 062 074 810 898.

Complete Solutions in Emergency Lighting STANILITE

DATA CONNECTIONS

Connect the data cable as shown in Figure 2 using suitably sized screwdriver. Ensure that the data cable/s are completely inserted into the terminal block and properly secured with tape.

Note: When correctly installed no fitting should have more than two data cables connected to it. If you have more than two data cables at any one fitting, the installation is incorrect. You will need to consult the Nexus LX User & Technical Guide.

Warning: No mains carrying cables are to be connected to the data terminals or cables.

4. Place the fuse into fuse holder before connecting Flood Unit to mains (fuse is placed inside the box and normally secured with the tape).

5. Once powered up, as a non-maintained Flood Unit the present lamp/beams stays off. The emergency function of the Flood Unit should only operate when the unswitched active power supply fails or when somebody presses the manual test button located on the side of the unit. The emergency function also operates when the Flood Unit receives a command from the Nexus controller to switch into emergency mode. When you first install the Flood Unit its LED will be flashing green. During different modes of operation the LED status should be as follows:-

Flashing orange	Wink mode cable tracing is on. Valid messages are being received by the unit.
Static orange	Wink mode cable tracing has been turned off.
Static red	Unit has been commissioned, battery is charging, lamp filament is intact.
Flashing red	Unit is under test.

Refer to the Nexus LX User & Technical Guide for detailed description of all possible LED states and their meanings.

6. Check the operation of the unit to ensure that the installation was successful. When powered up, allow a few minutes to give the battery a small charge, then press the manual test button located at the side of the unit. Press and hold the test button for a few seconds and observe that the lamp/beams lights up and stays on, until the test switch is released. If the lamp works only momentarily, this ensures that the connections are correct and the battery requires at least 16 hours to fully charge. If the lamp doesn't work at all, check the supply, the connections, and the trouble shooting guide at the end of this document.

7. Once manually checked as per item 6 above, the Flood Unit is ready to be communication tested and commission into the Nexus network. Keep the information details of this Flood Unit including exact location description, DB (distribution board) and CB (circuit breaker) numbering, channel and router numbering, plan number and cross referencing information as all of this will be required for entry into the database during commissioning. Refer to the Nexus LX User & Technical Guide for full details. As the installer, it is your responsibility to conduct the initial discharge testing of the installed unit. Refer to AS/NZS2293.

TO REMOVE FLOOD UNIT FROM THE INSTALLATION

Switch off the mains supplies to the Flood Unit, remove the fuse from fuse holder and then unplug the mains power cord. Remove the lid by unscrewing four screws as shown in Figure 1. Unscrew the data cable connection from the terminal block using a suitably sized screwdriver and then unscrew the mounting screws of the Flood Unit. When the unit is reconnected to the supply, it will need time to recharge its battery before it will be capable of a full length discharge again.

Note: When sending Flood Units for repair make sure that the lamp/beams and mains cable are included.

TESTING PRECAUTIONS

If the Flood Unit is to be left permanently connected to the mains supply from now on, you will need to allow 24 hours to charge its battery and then you will have to conduct a discharge test as per the requirements of AS/NZS2293.2. Presently (at the time of writing), the standard requires that new units operate in emergency mode for at least 2 hours during their first test. Subsequent tests are required every 6 months; units are then required to operate for not less than 90 minutes. You will need to keep records of the Nexus test results. If the unit isn't permanently connected to mains supply at this time, you are responsible for giving it the initial 2 hour test when you do connect it permanently to the mains supply. Refer to the Nexus LX User & Technical Guide for unit testing and test results.

© Copyright 2013. Thomas & Betts Australasia ABN: 062 074 810 898.